PATENT COOPERATION TREATY

From the INTERNATIONAL	_ PRELIMINARY EXA	AMINING AUTHORITY			
To: KELLY A. GARDNER SCIENTIFIC-ATLANTA, INC. INTELLECTUAL PROPERTY DEPARTMENT ONE TECHNOLOGY PARKWAY SOUTH			PCT WRITTEN OPINION		
		JUL 1 2 1999	·		
	sc	ENTIFIC-ATLANTA, INC. LEGAL DEPARTMENT	Date of Mailing day/month/year)	08 JUL 1999	
Applicant's or ag	ent's file reference			vithin TWO months rom the above date of mailing	
International appl	lication No.	International filing date	(day/month/year)	Priority date (day/month/year)	
PCT/US98/160	40	31 JULY 1998		31 JULY 1997	
International Patent Classification (IPC) or both national classification and IPC IPC(6): H04N 7/167; and US Cl.: 380/10, 20, 21, 23, 25, 49;					
Applicant SCIENTIFIC-A	ATLANTA, INC.				
1. This written	opinion is the first	(first, etc.)	drawn by this Interna	ational Preliminary Examining Authority.	
2. This opinion	contains indications re	lating to the following it	ems:		
ιx	Basis of the opinion				
	Priority				
<u> </u>		f oninion with regard to	novelty inventive ste	ep or industrial applicability	
				ep or measure apparations	
V Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement					
VI X	Certain documents c	ited			
VII 🔲	Certain defects in the	e international application	n .		
VIII Certain observations on the international application					
3. The applican	t is hereby invited to r	eply to this opinion.			
When? See the time limit indicated above. The applicant may, before the expiration of that time limit, request this Authority to grant an extension., see Rule 66.2(d).					
How?	By submitting a written reply, accompanied, where appropriate, by amendments, according to Rule 66.3. For the form and the language of the amendments, see Rules 66.8 and 66.9.				
Also	Also For an additional opportunity to submit amendments, see Rule 66.4. For the examiner's obligation to consider amendments and/or arguments, see Rule 66.4 bis. For an informal communication with the examiner, see Rule 66.6.				
If no reply is filed, the international preliminary examination report will be established on the basis of this opinion.					
4. The final date examination	e by which the internal report must be establis	tional preliminary thed according to Rule 6	9.2 is: <u>30 NOVEMB</u>	BER 1999 .	
Name and mailing	g address of the IPEA/	us	Authorized officer		
Commissioner of Patents and Trademarks Box PCT			PINCHUS M	LAU James R. Matthews	
_	on, D.C. 20231			703 306-4160	
Facsimile No. (7	1031 303-3430		Lorophone 140.	100) 000-4100	

International application No.

PCT/US98/16040

I.	Basis of	the opinion					
1. This opinion has been drawn on the basis of (Substitute sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this opinion as "originally filed".):							
	x the international application as originally filed.						
	x	the description,	pages <u>1-78</u>	_ , as originally filed.			
				_ , filed with the demand.			
			pages NONE	, filed with the letter of			
		the claims,	Nos. 1-12	an originally filed			
	X	the claims,		, as amended under Article 19.			
			Nos. NONE	, filed with the demand.			
			NONE	, filed with the letter of			
	x	the drawings,	sheets /fig 1-21	, as originally filed.			
				, filed with the demand.			
			sheets/fig NONE	, filed with the letter of			
3.	X X X This con: (Ru	the description, the claims, the drawings, s	Nos. NONE heets/fig NONE n established as if (some	ne of) the amendments had not been made, since they have been as indicated in the Supplemental Box Additional observations below			

International application No.

PCT/US98/16040

	citations and explanations su			inventive step o	r industrial	applicability;
1.	STATEMENT				·	
	Novelty (N)	Claims	NONE			YES
		Claime	1-12			NO

Inventive Step (IS)

Claims NONE

Claims 1-12

YES

Industrial Applicability (IA)

Claims 1-12

Claims NONE

NO

2. CITATIONS AND EXPLANATIONS

Claims 1-7 lack novelty under PCT Article 33(2) as being anticipated by Rohatgi (EP 0752 786). Rohatgi teaches sending a message, the digitally signed hash of the message and a certificate from the headend to the set top which then recreates the hash and compares to determine both source authenticity and data integrity.

Claims 8-12 lack an inventive step under PCT Article 33(3) as being obvious over Rohatgi ('786) in view of Coutrot et al. Rohatgi does not specifically teach the use of the control word. Coutrot teaches (p. 464, top of right column)the ubiquity of control words in conditional access satellite systems, that they should be transmitted in encrypted form (p 464 bottom of right column) and their use as input to the Hash. In light of this teaching it would have been obvious to implement Rohatgi with the additional requirement of using the control word.

Claim 1-12 lack an inventive step under PCT Article 33(3) as being obvious over Moore ('527). Moore teaches (at the locations cited)an analogous system for a software reuse library. The only difference is that the context of Moore is not satellite or cable tv. It is well established that teachings regarding "software" encompass all forms of digital data. In this digital age, when television transmissions are digital, the application of Moore's scheme to a TV system using "headends" and "set-tops" is obvious.

US 5,343,527 (MOORE) 30 AUGUST 1991, see figures 4-7, column 8 line50 - column 9 line 21, and column 10 line 60 - column 13 line 35

International application No.

PCT/US98/16040

29 DECEMBER 1995

VĮ. Certain documents cited 1. Certain published documents (Rule 70.10) Priority date (valid claim) Filing Date Application No. Publication Date Patent No. (day/month/year) (day/month/year) (day/month/year) 25 MAY 1999 20 DECEMBER 1996 US, A.5,907,619 US, A, 5,870,475 9 FEBRUARY 1999 19 JANUARY 1996 04 DECEMBER 1995

9 FEBRUARY 1999

2	Non-written	disclosure	s (Rule 70.9)

US, A, 5,870,474

Kind of non-written disclosure

Date of non-written disclosure (day/month/year)

Date of written disclosure referring to non-written disclosure (day/month/year)

International application No.

PCT/US98/16040

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20	D D i	em	en	taı	BOX

(To be used when the space in any of the preceding boxes is not sufficient)

Continuation of: Boxes 1 - VIII

Sheet 10

TIME LIMIT:

The time limit set for response to a Written Opinion may not be extended. 37 CFR 1.484(d). Any response received after the expiration of the time limit set in the Written Opinion will not be considered in preparing the International Preliminary Examination Report.